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Immuno-potentiator for fortified antigen and immunisation procedure -
composed of cellulose net-like particles of nitrocellulose, for
inoculation of animals

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Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 1287032	A	19891117	JP 88114441	A	19880511		199001 B
JP 95116057	B2	19951213	JP 88114441	A	19880511	A61K-039/39	199603

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Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
JP 1287032	A		6			
JP 95116057	B2		5	Based on		JP 1287032

Abstract (Basic): JP 1287032 A

Immunopotentiator is composed of cellulose net-like particles.
Cellulose material is nitrocellulose. Fortified antigen is composed of
the immunopotentiator and antigen absorbed onto the carrier. The animal
is inoculated with the fortified antigen for immunization and antibody
prodn.

USE/ADVANTAGE - The immunopotentiator is used to increase
immunogenicity and activate immunoreaction. The fortified antigen is
used as vaccine or for prodn. of monoclonal antibody and various
antibodies. Monoclonal antibody can be prepd. less expensively and
vaccine can be prepd. against the virus with very low immunogenicity.

Title Terms: IMMUNO; POTENTIATE; FORTIFIED; ANTIGEN; IMMUNE; PROCEDURE;
COMPOSE; CELLULOSE; NET; PARTICLE; NITROCELLULOSE; INOCULATE; ANIMAL

Derwent Class: A96; B04; D16; S03

International Patent Class (Main): A61K-039/39

International Patent Class (Additional): A61K-031/72; A61K-039/385;

C12P-021/00; G01N-033/53

File Segment: CPI; EPI

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B04-C02A; B12-A01; B12-C09; B12-M11D; D05-H07

Manual Codes (EPI/S-X): S03-E14H4

Plasdoc Codes (KS): 0231 1974 1976 2541 3272 2766 2767

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001 014 04- 065 231 239 252 393 525 53& 611 623 624 645

Chemical Fragment Codes (M1):

01 K0 K7 K710 M280 M320 M421 M423 M781 M903 P210 P220 P434 Q233 V270
V280 V712

02 M423 M720 M903 N131 N133 N136 Q233 V600 V611

Derwent Registry Numbers: 1861-U

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ADJUVANT, REINFORCED ANTIGEN AND IMMUNIZATION

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ABSTRACT

PURPOSE: To obtain an adjuvant to reinforce immunogenicity and to activate immunological reactions artificially carried out in organisms, comprising network structure particles of cellulosic material.

CONSTITUTION: An adjuvant comprising network structure particles of cellulosic material (e.g., nitrocellulose, cellulose phosphate or CMC), preferably particles having 50-200.mu.m, especially 100-200.mu.m diameter and 0.1-0.6.mu.m mesh size of net. The particles, for example, are prepared by finely cutting membrane filters comprising nitrocellulose as a raw material and grinding into a powdery state. Immunization of animal using an extremely small amount of antigen or an antigen having low immunogenicity is made possible by preparing a reinforced antigen comprising a carrier consisting of the adjuvant and an antigen adsorbed on the carrier. Only synthesis of the aimed specific antibody can be introduced without introducing synthesis of nonspecific antibody.

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